

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/009966

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04R3/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04R H04S G10H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 168 296 A (YAMAHA CORP) 2 January 2002 (2002-01-02) abstract column 25, line 25 – column 45, line 14 -----	1-16
A	WO 99/26454 A (SRS LABS INC) 27 May 1999 (1999-05-27) abstract page 16, line 25 – page 17, line 20; figures 12A-D -----	1-16
A	WO 03/028405 A (AUBAUER ROLAND ;SIEMENS AG (DE); KLINKE STEFANO AMBROSIUS (DE)) 3 April 2003 (2003-04-03) abstract page 7, line 9 – page 12, line 11; figures 4-6 ----- -/-	1-16

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
3 December 2004	21/12/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Fülop, I

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/009966

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 068 489 A (NAGATA YUICHI ET AL) 30 May 2000 (2000-05-30) column 2, line 60 - column 3, line 43 column 4, line 11 - line 17 -----	2
A	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 01, 28 February 1995 (1995-02-28) & JP 06 289882 A (VICTOR CO OF JAPAN LTD), 18 October 1994 (1994-10-18) abstract; figure 1 -----	2
A	US 5 930 373 A (SHASHOUA MEIR ET AL) 27 July 1999 (1999-07-27) -----	

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/009966

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1168296	A	02-01-2002	JP JP DE EP US	2001337680 A 2002006852 A 60106680 D1 1168296 A2 2001049994 A1	07-12-2001 11-01-2002 02-12-2004 02-01-2002 13-12-2001
WO 9926454	A	27-05-1999	AU WO	1072099 A 9926454 A1	07-06-1999 27-05-1999
WO 03028405	A	03-04-2003	WO EP	03028405 A1 1428411 A1	03-04-2003 16-06-2004
US 6068489	A	30-05-2000	JP JP CN KR SG	3114587 B2 9116358 A 1153368 A ,B 270436 B1 54378 A1	04-12-2000 02-05-1997 02-07-1997 01-11-2000 16-11-1998
JP 06289882	A	18-10-1994	NONE		
US 5930373	A	27-07-1999	AU DE DE EP ES WO JP JP TW	6850298 A 69810914 D1 972426 T1 0972426 A1 2143969 T1 9846044 A1 3478401 B2 2000505277 T 381403 B	30-10-1998 27-02-2003 29-06-2000 19-01-2000 01-06-2000 15-10-1998 15-12-2003 25-04-2000 01-02-2000